## IN THE CLAIMS:

## Claims 1-13 (Cancelled)

14. (Previously Presented) A method for controlling flooding in a bridged network having a bridge connected to a plurality of networks, the method comprising:

processing a packet having a destination MAC address to determine whether a mapping between the destination MAC address and a port exists;

if no mapping between the destination MAC address and port exists, then until a reply is received from a port associated with the destination MAC address, iteratively:

performing broadcast flooding of packets for a first predetermined time period; and

ceasing broadcast flooding of packets for a second predetermined time period.

- 15. (Previously Presented) The method of claim 14, wherein said first predetermined time period and said second predetermined time period is set by a network administrator.
- 16. (Previously Presented) The method of claim 14, further comprising, prior to said performing broadcast flooding of packets, consulting a filter table to determine said first predetermined time period.

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17. (Previously Presented) The method of claim 14, further comprising setting a flag to indicate a quiet period in which no broadcast flooding is to be performed after said first predetermined time period passes.

- 18. (Previously Presented) The method of claim 14, wherein, an entry is made in a filter table if no mapping between the destination MAC address and port exists, then until a reply is received from a port associated with the destination MAC address.
- 19. (Previously Presented) The method of claim 18, wherein the entry is removed from the filter table after a port associated with the destination MAC address replies to the broadcast flooding of packets.
- 20. (Previously Presented) The method of claim 14, wherein an entry is made in the filter table indicating a number of packets that are directed at the destination MAC address.
- 21. (Previously Presented) The method of claim 20, wherein the entry indicating the number of packets directed at a destination address is used to determine which entry to delete from the filter table if the filter table becomes overpopulated with entries.
- 22. (Previously Presented) A computer program product containing instructions which, when executed by a computer, controls flooding in a bridged network having a bridge connected to a plurality of networks, by:

processing a packet having a destination MAC address to determine whether a mapping between the destination MAC address and a port exists;

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if no mapping between the destination MAC address and port exists, then until a reply is received from a port associated with the destination MAC address, iteratively:

performing broadcast flooding of packets for a first predetermined time period; and

ceasing broadcast flooding of packets for a second predetermined time period.

- 23. (Previously Presented) The computer program product of claim 22, wherein said first predetermined time period and said second predetermined time period is set by a network administrator.
- 24. (Previously Presented) The computer program product of claim 22, further comprising instructions which, when executed by a computer, prior to said performing broadcast flooding of packets, consult a filter table to determine said first predetermined time period.
- 25. (Previously Presented) The computer program product of claim 22, further comprising instructions which, when executed by a computer, set a flag to indicate a quiet period in which no broadcast flooding is to be performed after said first predetermined time period passes.
- 26. (Previously Presented) The computer program product of claim 22, further comprising instructions which, when executed by a computer, insert an entry in a filter table if no mapping between the destination MAC address and port exists.

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27. (Previously Presented) The computer program product of claim 26, further comprising instructions which, when executed by a computer, remove the entry from the filter table after a port associated with the destination MAC address replies to the broadcast flooding of packets.

- 28. (Previously Presented) The computer program product of claim 22, further comprising instructions which, when executed by a computer, make an entry in the filter table indicating a number of packets that are directed at the destination MAC address.
- 29. (Previously Presented) The method of claim 28, further comprising instructions which, when executed by a computer, examine the entry indicating the number of packets directed at a destination address to determine which entry to delete from the filter table if the filter table becomes overpopulated with entries.
- 30. (Previously Presented) A system for controlling flooding in a bridged network having a bridge connected to a plurality of networks, the system comprising:

means for processing a packet having a destination MAC address to determine whether a mapping between the destination MAC address and a port exists;

means for determining if no mapping between the destination MAC address and port exists, and, until a reply is received from a port associated with the destination MAC address, iteratively:

performing broadcast flooding of packets for a first predetermined time period; and

ceasing broadcast flooding of packets for a second predetermined time period.